REFERENCE CARD

ELECTRONIC ARTS PRESENTS

CD-ROM CLASSICS

GOLD EDITION

THE NEED FOR SPEED™ - SE

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Documentation is provided on-line. If you would like to receive the printed manual, please see the order form on the back cover.

SYSTEM REQUIREMENTS

MINIMUM CONFIGURATION

- ❒ Windows® 95 or MS-DOS 5.0 or higher
- ❒ Pentium® 75 MHz processor
- ❒ MS-DOS®: 8 MB RAM
  Windows 95: 12 MB RAM
- ❒ MPC2 compliant double-speed CD-ROM drive (300K/second transfer rate and ≤ 400 ms seek time)
- ❒ PCI SVGA video card capable of 640x480 with 256 colors (512K or more video RAM) with a VESA-compliant BIOS or driver.
- ❒ MS-DOS: 4 MB of free hard disk space
  Windows 95: 30 MB of free hard disk space
- ❒ Keyboard
- ❒ Optional joystick or mouse
- ❒ Optional sound card
- ❒ Optional modem play requires 100% Hayes™-compatible modem capable of 9600 bps with a high speed (16550 UART) serial port
- ❒ Optional network play requires Windows 95, a network card and a 100% IPX compatible network

RECOMMENDED CONFIGURATION

- ❒ Pentium 100 MHz processor or higher
- ❒ 16 MB RAM
- ❒ Quad-speed CD-ROM drive
- ❒ PCI SVGA video card capable of 640x480 with 256 colors (with at least 1 MB video RAM) with a VESA compliant BIOS or driver
- ❒ 50 MB of free hard disk space
- ❒ Mouse and analog joystick or Gravis™ PC Gamepad™
- ❒ Sound Blaster 16™ or Gravis Ultrasound™ sound card

INSTALLATION

DISK PREPARATION

Before you install any software, it is critical that your hard drive be in proper working order. Under MS-DOS, we recommend running SCANDISK or DEFRAG (DOS 6.2 or higher), and for Windows 95 run "Disk Defragmenter". SCANDISK searches your hard drive for any lost allocation units as well as any cross-linked files and directories. DEFRAG ensures that your data is sorted properly. Failure to verify this may result in corrupt data.

Steps for running these preventative applications are given below for MS-DOS and Windows 95.

MS-DOS PREPARATION

1. Type **ver** Enter from the MS-DOS **C:>** prompt. Your MS-DOS version is displayed on the screen. If it says 'MS-DOS VERSION 6.21' or any version later than 6.2, follow the steps below. If you are using MS-DOS version 5.0, you may need to use other utilities (such as Norton Utilities™ or Central Point Tools™) to check your drive's condition.
2. Type **scandisk c:** Enter from the MS-DOS prompt. This will determine if your drive is in good repair. If any damage is found, you should repair it before continuing, following the instructions in your MS-DOS manual.
3. Type **defrag c: /f** Enter from the MS-DOS prompt. This runs a complete defragmentation on your hard disk to ensure all your data is sorted properly. It also optimizes your hard disk for faster load and access times.

WINDOWS 95 PREPARATION

The procedure for scanning and defragmenting your disk from Windows 95 is essentially the same as from MS-DOS—only the method for starting the programs is different.

1. First, run SCANDISK. To start SCANDISK, left-click on the **Start** button from the Taskbar. The Start menu opens.
   - From the Start menu, select **Run**. Type in "SCANDISK" and select "OK". The program will start.
   - Once activated, make sure there is a check mark in the **Automatically Fix Errors** box and select the hard drive you are installing the game to (e.g., C:). Once everything is set up correctly, click **Start** to have the program scan the drive and correct any errors.
2. Next, run DEFRAG. To start DEFRAG select **Run**. Type in "DEFRAG" and select "OK". The program will start. As with SCANDISK, select the drive you are installing the game to and click **OK**.

INSTALLATION FOR DOS

1. Insert *The Need for Speed™ Special Edition* CD in your CD drive.
2. At the DOS prompt, type **d:** Enter to change to your CD drive (substitute the correct letter of your CD drive if other than 'D:').
3. When you see the 'D:' prompt, type **install** Enter to start the installation program. The Install Menu screen appears.

• To toggle your language between English and German, select **English** and press Enter.

4. Click **Install**. The Sound Card screen appears.

• Click your sound card type (or NONE if your computer does not have a sound card). If you're not sure, click **Auto Detect**; The game will attempt to identify your sound card.
• To test the selected sound card, click **TEST SOUNDCARD**.

5. To accept the sound card selection, click **Done**. The Video Test screen appears.

• Click **Game Video** to toggle in-game videos on/off. Click **Test Video** to verify that the game videos play correctly.

6. Click **Done**, and a video runs automatically. Press any key to continue. The Install screen appears.
7. Note the Install Status at the bottom of the screen. To alter any Install options, click the option at the top of the screen.

• The default directory is C:\NFSSE, but you can type in a different drive and directory if you prefer; click **Set Path** to edit.
• To select a minimum install, click **Minimum Install**. This installs only the files necessary to run the game on your hard disk. This saves hard disk space, but the game will run more slowly, since more data needs to be read from the CD drive.

✔ NOTE: Windows 95 users are required to have 30 MB of free hard drive space and must use the Recommended Install.

• To select the recommended install, click **Recommended Install**. More files are installed, taking up more disk space than a minimum install but allowing the game to run faster.
• To customize your choice of files to install, select **Custom Install.** A window appears listing choices of files to install. To select files to install, press ↑/↓ to the file you want and press Enter. When finished, select **Done**.
• *The Need for Speed Special Edition* permits up to 8 players to join a network game as long as the host of that game has a game CD; other network players (the clients) are not required to have their own game CD. To perform a Remote installation, select **Remote Install**.

✔ NOTE: A Remote installation *only* permits that computer to join a network game created by a host computer which has a game CD present. Remote installations do not permit creation of network games or non-network play. Remote installation over networks is not supported.

8. To begin the selected installation, select **Done** to confirm your choice (**Cancel** to cancel). The files are installed on your hard disk.

❒ If you have any CD or video card problems during installation, see *Problems With Your Software?* on p. 9.
❒ The CD must remain in the drive while playing the game.

WINDOWS 95 INSTALLATION

1. Start the Windows 95 operating system.
2. Insert the CD into your CD drive. The launcher appears.

✔ NOTE: If the launcher does not appear, click the **Start** button from the Taskbar, then click **Run**.... The Run dialog box appears. Type **d:\gateway\gateway.exe** (substitute the correct letter of your CD drive if other than 'D:'). The launcher appears.

• To quit without installing, select **Quit**.

3. To install the program, click **Race**. Follow the onscreen prompts to complete installation. (See *Installation for DOS* on p. 4 for information on installation options.)

DIRECTX INSTALLATION

READ DIRECTX INSTALLATION NOTES COMPLETELY BEFORE PLAYING *THE NEED FOR SPEED SPECIAL EDITION* OR INSTALLING THE DIRECTX DRIVERS.

The *The Need for Speed Special Edition* CD includes the original Microsoft DirectX 2 drivers and the more recent Microsoft DirectX3a drivers. During setup, *The Need for Speed Special Edition* asks if you would like to install the DirectX 2 drivers.

• If you have DirectX 2 or higher, select **No** from the DirectX dialog box. You should not install these drivers.
• If you do not have DirectX or have an earlier version installed, select **Yes** from the DirectX dialog box. Follow the onscreen prompts to install or re-install DirectX to your hard drive. You are prompted to restart your computer.
• If you install DirectX2 and you experience problems with the game, select **Install DirectX 3a** from the launcher, then follow the onscreen instructions. DirectX 2 is updated to DirectX 3a.

DIRECTX INSTALLATION NOTES

DirectX is an Application Programming Interface (API) that allows Windows 95 based applications to have high-performance, real-time access to your hardware. It also reduces the complexity of installing and configuring your hardware. This makes the DirectX API well suited for Windows 95 games. *The Need for Speed Special Edition* uses DirectX 2 (the latest iteration of DirectX at the time of the original release) and includes both DirectX 2 and DirectX 3a files you can install.

Two DirectX components, DirectDraw™ and DirectSound™, may require updating your video card and sound card drivers respectively, for proper operation of these components. Using video card and sound card drivers that do not have DirectX support will result in display and audio problems in DirectX applications. During the installation of DirectX, your video card and sound card drivers will be updated if required. The DirectX files included with *The Need for Speed Special Edition* include drivers for most video cards and sound cards from the major manufacturers of these peripherals. For new hardware, and for lesser-known brands of peripherals, you may have to contact your manufacturer to obtain drivers that have DirectX support.

After installing DirectX, check to see if your video card or sound card drivers have DirectX support:

1. Click the **Start** button on your Windows 95 Taskbar. Then click **Run**....
2. From the Run dialog box, type **d:\redist\directx\dxsetup** then click **OK** (substitute the correct letter of your CD drive if other than 'D:').
3. Look at Display Driver and Audio Driver.

The second column displays the version number of the driver. The next column displays whether or not your driver is Certified by Microsoft as supporting DirectX.

- If your Display Driver or Audio Driver says "No Hardware Support" in this column, you will have to contact your manufacturer to obtain updated drivers that have DirectX support.
- If your Display Driver or Audio Drivers says "Certified" in this column, your video card or sound card has DirectX support, and should work properly in DirectX applications.
- If your Display Driver or Audio Driver is blank in this column, and a driver version is listed, your video card or sound card driver supposedly has DirectX support, and is waiting for approval from Microsoft to be Certified.

- If your Display Driver or Audio Driver is blank in this column, and no driver version is listed, the performance and stability of this type of certification is unknown. Check with your manufacturer for any updated drivers that support DirectX.

✔ NOTE: During the installation of DirectX, if you are using a video card or sound card driver from your manufacturer that has DirectX support, but is not yet Certified by Microsoft, you will be asked if you want to replace the driver with a Certified driver. For **video cards**, we recommend that you do **not** replace your manufacturer's video card driver in this situation. Some manufacturers rely on their own specific driver for functionality of their display utilities programs. Replacing the manufacturer's driver with Microsoft's driver may disable the functionality of these utility programs.

UNINSTALLING THE GAME

If you are having problems or the game did not install correctly the first time, we recommend uninstalling, then re-installing the game.

1. Start the Windows 95 operating system.
2. Insert the CD into your CD drive. The launcher appears.

✔ NOTE: If the launcher does not appear, click the **Start** button from the Taskbar, then click **Run**.... The Run dialog box appears. Type **d:\installw** (substitute the correct letter of your CD drive if other than 'D:').

3. Click **DirectX Already Installed**. The Setup menu appears.
4. Select **Uninstall**, then press Enter.
5. The directory location is displayed. If it is incorrect, make any necessary corrections and press Enter. If it is correct, simply press Enter. The program is uninstalled.

✔ NOTE: If you installed the game using Windows 95, you are asked if you want to save replays. Select **Yes** and designate a folder or select **No** to delete all saved replays.

6. Select **Quit**.

THE ONLINE MANUAL

Access the online manual for gameplay tips and instructions. If you want to reference the manual during gameplay, we recommend printing it.

WINDOWS 95 USERS

TO INSTALL THE ONLINE MANUAL:

1. Start the Windows 95 operating system.
2. Insert the CD into your CD drive. The launcher appears.

✔ NOTE: Your system may not have Autorun capability. If the launcher does not appear: Click **Start** > **Run** > **Browse**. From the Look-in menu, select your CD drive. Select **Gateway** > **Gateway.exe**, and click **OK**. The launcher appears.

- To quit without installing, select **Quit**

3. Click **Install Docs**. The Modern Age Books title screen appears.
4. Follow the onscreen prompts to complete the install. The Modern Age Books folder appears containing a shortcut icon.

- To create a shortcut, right-drag the icon to your desktop and select **Create Shortcut(s) Here**. Double-click the shortcut icon to access the manual.

TO ACCESS THE ONLINE MANUAL:

- Click **Start** > **Programs** > **Modern Age Books** > **NFS SE**. The *The Need for Speed Special Edition* manual appears.
- If you wish to print the manual, select **Print** from the File menu.

WINDOWS 3.X USERS

TO INSTALL THE ONLINE MANUAL:

1. From the Program Manager, access the File menu, and select **Run**.
2. Type **d:\docs\install** and click **OK**. (Substitute the name of your CD drive if other than d:)
3. Follow the prompts to install.

TO ACCESS THE ONLINE MANUAL:

1. From the Program Manager, open the **Modern Age Books** program group.
2. Double-click the The Need for Speed Special Edition icon. The *The Need for Speed Special Edition* manual appears.

- If you wish to print the manual, select **Print** from the File menu.

STARTING THE GAME

STARTING THE GAME FROM MS-DOS

Make sure that *The Need for Speed Special Edition* is properly installed. (See *Installation for DOS* on p. 4 for complete MS-DOS installation instructions.)

1. Insert *The Need for Speed Special Edition* CD in your CD drive.
2. At the DOS prompt, move to the directory where the game is installed. By default, it is installed in C:\NFSSE, so you would type:
   c: Enter
   cd \nfsse Enter
3. To start the program, type **nfs** Enter. An Electronic Arts™ screen appears, followed by the title video sequence.

- At each screen, press Enter to advance to the next screen. The Game Mode screen appears.

STARTING THE GAME FROM WINDOWS 95

WINDOWS 95 QUICKSTART

- Open the **Start** menu, go to **Programs** > **NFS SE** and choose **NFS SE**. The game begins.
- Refer to the online manual for gameplay instructions.

PROBLEMS WITH YOUR SOFTWARE?

If you are having a problem installing or using your software, we want to help.

❒ First, please make sure you have read thoroughly the *Installation* and *System Requirements* sections above.

If you have followed the directions and are still having trouble installing or operating the software consult the online help guide.

TO ACCESS THE HELP GUIDE:

1. Insert the CD into your CD drive. The launcher appears.

✔ NOTE: If the launcher does not appear: Click **Start** > **Run** > **Browse**. From the Look-in menu, select your CD drive. Select **Gateway** > **Gateway.exe**, and click **OK**. The launcher appears.

2. Select **Help** from the launcher.

If you followed the instructions and are still having trouble installing or operating the software, here are some tips that may help to solve the problem:

✔ NOTE: Before attempting any of the following suggestions, please make sure you are familiar with the MS-DOS and Windows 95 commands being used. Consult your operating system manual for more information.

GAMEPLAY PERFORMANCE PROBLEMS

The following suggestions may be used to help improve the performance of the game on your system.

- ❒ Make sure no other Windows 95 applications are running in the background. Pressing Ctrl+Alt+Del will display the current tasks which are running in the background.
- ❒ Select "Bumper Cam" by pressing C during gameplay.
- ❒ Disable Racing Music by setting SONG in the Audio menu to NONE.
- ❒ Reduce the SCREEN SIZE in the Graphics Detail menu, or by pressing F1 during gameplay.
- ❒ Select a lower IMAGE QUALITY in the Graphics Detail menu, or press F2 during gameplay.
- ❒ Select a SCREEN RESOLUTION of 320x200 in the Graphics Detail menu.

CONTROLLER PROBLEMS

Windows 95 users that experience calibration or control problems with their controllers may need to configure them properly using the Windows 95 Joystick Control Panel. Once you have done this, run the game again. If the problems persist, try using the Joystick Configuration Utility supplied on the game CD. *(See "Using The Joystick Configuration Utility" section below.)*

Both MS-DOS and Windows 95 users that experience controller problems such as troublesome Z-axis joystick wheels, reversed axis, and other oddities may want to use the Joystick Configuration Utility *(see "Using The Joystick Configuration Utility" below).*

USING THE JOYSTICK CONFIGURATION UTILITY (JCU)

We have provided a special program called the *Joystick Configuration Utility* (JCU.EXE) on the game CD which enables users to configure the game to recognize many different controller types, as well as permit you to create your own custom configuration. Other utility features include remapping, polarity reversal, and disabling for both buttons and axes. This utility runs under both MS-DOS and Windows 95, and requires use of the keyboard (it does not accept mouse input). This utility is not installed during the game installation, and must be run from the game CD.

MS-DOS USERS

1. Ensure your game CD is in your CD-ROM drive.
2. Change your current directory to your game CD. In most cases this is the **d:** drive, so at the MS-DOS prompt type **d:** and press Enter.
3. Type: **cd ** and press Enter.
4. Type **jcu** and press Enter.
5. A title screen appears with a prompt asking you to select the English or German language versions of the utility. Use the ↑/↓ keys to select your language, and press Enter.
6. At this point, you may press F1 to access the built-in help for instructions on using this utility. Remember to use your keyboard to navigate through the menus.

WINDOWS 95 USERS

1. Ensure your game CD is in your CD-ROM drive. If you insert your game disc and the install program runs, simply select QUIT and press Enter. The install program quits.
2. Left-click on the **Start** button in the taskbar. The Start menu appears.
3. Highlight the **Run** menu item, and select it using the left mouse button.
4. Left-click your mouse on the **Browse** button.
5. A Browse window appears. Open the **Look in** box, and select the CD-ROM disc called "**nfsse**". The directory contents of the game disc appears in the Browse window.
6. Now use your mouse pointer to select the file **Jcu.exe**, and left-click on it once. Select the **Open** button. A Run window appears with the path and name of the Joystick Configuration Utility program.
7. Left-click once on the **OK** button. Windows 95 opens an MS-DOS shell window, and the program runs.
8. A title screen appears with a prompt asking you to select the English or German language versions of the utility. Use the ↑/↓ keys to select your language, and press Enter.
9. At this point, you may press F1 to access the built-in help for instructions on using this utility. Remember to use your keyboard to navigate through the menus.

CD PROBLEMS

A double-speed CD-ROM drive is required to run *The Need for Speed Special Edition* and you'll get even better results from a quad-speed (4x) or faster CD drive.

Receive "File not found" error message when installing or running the game

- ❒ Make sure the game was properly installed. See *Installation* on p. 3.
- ❒ Make sure that the CD is in the CD drive. The CD must be in the drive to install or run the game.

MS-DOS users using the MS-DOS version:

- ❒ Make sure that the correct driver for your CD drive is loaded in your AUTOEXEC.BAT and CONFIG.SYS files. (Example: In AUTOEXEC.BAT, your CD driver line could be: "C:\WINDOWS\MSCDEX /D:MSCD001 /M:10", and in CONFIG.SYS, the CD device driver might appear similar to "DEVICE=C:\DEV\HIT-IDE.SYS /D:MSCD001".)
- ❒ Keep in mind that your CD driver will always contain a 'D/:xxx' switch in both the AUTOEXEC.BAT and CONFIG.SYS files that signifies the CD-ROM device name

VIDEO PROBLEMS

MS-DOS Users

The Need for Speed Special Edition requires a SVGA video card capable of 640x480 with 256 colors (512K or more video RAM) that has a VESA compliant BIOS or has a VESA compliant driver. If you are having difficulties installing or running the program, please note that *you must have VESA support installed on your system before executing this program.* If your video card does not have a built-in VESA BIOS, you must load a VESA 1.02 compliant driver or a universal VESA driver in order for the game to run as it is intended.

If you still are experiencing difficulties with video you may want to consult your video card's manual for specific information on loading a manufacturer-specific VESA driver

General Video Card Information

- ❒ If your card has a built-in VESA BIOS, you do not have to load a VESA driver.
- ❒ *Please contact the manufacturer of your video card with any VESA driver or video card issues.*

Windows 95 Users

The Need for Speed Special Edition—Windows 95 executable runs only in 256 color (8 bit) mode. Make sure your display is set to this mode. To find out your current video mode, go into your control panel folder, and double-click the Display icon. Select the "Settings" tab

and look at the "Color Palette" setting. If this value is not set at 256 colors, click the down arrow beside the current setting and select "256 color". Select **Apply**, then click **OK**. Windows 95 tells you that you have to restart Windows before the new settings will take effect. Click "Yes" to restart the computer, and run the game again.

MEMORY PROBLEMS

MS-DOS Users

The Need for Speed Special Edition DOS executable requires 400K free conventional memory and 7100K of extended memory (XMS) to run with full audio quality.

Receive "Out of memory" message

Your system does not have enough free memory available.

- ❒ Make sure your system has at least 8 MB of RAM.
- ❒ Make sure you have at least 400K conventional memory and 7100K XMS free:
  - Type **mem /c** Enter from the DOS prompt to check the amount of available memory on your system. A memory summary statement similar to the following is displayed (exact numbers will vary by system):

```
Type of Memory          Total       Used        Free
Conventional          651,360     63,344     592,016
Upper                 158,560    156,256       2,304
Reserved              393,216    393,216           0
Extended (XMS)     15,570,080  2,385,056  13,185,024
Total memory       16,777,216  2,997,882  13,779,344
Total under 1 MB      813,920    219,600     594,320
Largest executable program size    591,728    (578K)
Largest free upper memory block      1,284      (0K)
MS-DOS is resident in the high memory area.
```

The important numbers are bold. The "Extended (XMS)" line must read 7,270,400 bytes (7100K) or higher in the "Free" column. The "Largest executable program size" line must read **409,600 bytes (400K)** or higher. For detailed information on freeing up additional memory, refer to *DOS Users: Creating a Boot Disk* on p. 19.

MS-DOS Memory Information

- ❒ We strongly recommend using HIMEM.SYS
- ❒ DO NOT use any other extended or expanded memory managers such as EMM386.EXE or QEMM.SYS.

- ❒ We recommend that you temporarily disable any nonessential utilities you may be running in order to free up more memory on your system. Examples of such include:

  ANSI.SYS
  SMARTDRV.EXE
  POWER.EXE
  IFSHLP.SYS
  CSP.SYS
  VSHIELD.SYS
  DOSKEY.COM
  PS1TOOLS (any utility)
  ANYKEY.COM
  RESUME.SYS
  ASP.SYS
  VSAFE.EXE
  SHARE.EXE
  Any network drivers you may normally load

- ✔ NOTE: *The Need for Speed Special Edition* does not support Double space. Please consult your Windows 95 manual on disabling Double space.

WINDOWS 95 USERS

The Need for Speed Special Edition Win95 executable requires 12 MB of total memory. In addition, it is recommended that you have at least 20 MB of hard drive space available, after installation, for Windows 95 virtual memory. We strongly recommend that you permit Windows 95 to manage your virtual memory settings.

SOUND PROBLEMS

MS-DOS USERS

The Need for Speed Special Edition supports Sound Blaster™, Sound Blaster Pro™, Sound Blaster 16™, Ensoniq Soundscape™, Microsoft® Windows® Sound System™, and Gravis Ultrasound™ sound cards.

INSTALLED SOUND CARD, BUT THERE IS NO SOUND

- ❒ Make sure your speakers or headphones are plugged into the appropriate jack and the volume control is turned up.
- ❒ Make sure you selected the correct sound card.
- ❒ Make sure that your sound card is set up correctly. Refer to *Sound Configuration* below.
- ❒ If you used the *Auto Detect* feature on the installation program's Sound Card screen and got no sound in the game, rerun the install program and manually select your sound card on the Sound Card screen. (This option does require reinstallation of the game.)

INSTALLED SOUND CARD, BUT GET STATIC FROM SPEAKERS

- ❒ Make sure you selected the correct sound card.
- ❒ Make sure that your sound card is set up correctly. Refer to *Sound Configuration* on next page.

SOUND CONFIGURATION

Make sure the appropriate statement for your sound card is included in your AUTOEXEC.BAT file.

REQUIRED SOUND CARD LINES

The following lines are sample lines for these sound cards that should appear in your CONFIG.SYS and AUTOEXEC.BAT files. The specific parameters and directory lines for your card may be different so you should use the ones that currently exist in your CONFIG.SYS and AUTOEXEC.BAT files. For the Sound Blaster™ family of cards and Sound Blaster™ compatible cards, you should ensure that the SET BLASTER= environment variable in your AUTOEXEC.BAT file is correctly set to match your sound card settings. If you have the wrong settings you may experience a lockup, or no sound. If your card is not listed, please refer to your sound card manual on how to correctly configure your sound card.

WINDOWS 95 USERS

- ❒ Make sure you have the correct Windows 95 drivers for your sound card installed. *(Refer to your sound card documentation provided by the manufacturer.)*

MODEM PROBLEMS

The Need for Speed Special Edition requires a 100% Hayes compatible 9600 bps or faster modem, with a high speed (16550 UART) serial port for modem play.

MODEM DOES NOT INITIALIZE

- ❒ Make sure you selected the correct modem in the Modem Configuration screen of the game.
- ❒ Make sure that there are no other peripherals (e.g., mouse) that are conflicting with the modem.
- ❒ Make sure that all modem settings (e.g., COM port, IRQ) are correct. *(Please consult your modem documentation for proper installation.)*
- ❒ Choose one of the Generic options as your modem in the Modem Configuration screen.

MODEMS CONNECT BUT DO NOT EXIT SYNCHRONIZATION

- ❒ Make sure you selected the correct modem in the Modem Configuration screen of the game.
- ❒ While you are in the game, abort the connection, and try connecting again.
- ❒ Customize the INIT STRING by adding ",,," to the end of the initialization string.
- ❒ Choose one of the Generic options as your modem in the Modem Configuration screen.

General modem information

- ❒ Your modem must be set to connect at 9600 BPS, with error correction, error detection, and compression disabled.
- ❒ Hardware (RTS/CTS) flow control must be enabled and software (XON/XOFF) flow control must be disabled.
- ❒ Consult your modem manual for the appropriate AT commands to set these options and insert them into the initialization string.

When modems have trouble connecting, the problem may be that they did not initialize properly. Try turning off both modems, then start the connection procedure again.

- ❒ If you are experiencing slow or choppy gameplay after connecting: This may be due to data compression, error correction, hardware flow, or software flow being enabled. Consult your modem owners manual for the proper initialization string to disable these settings.
- ❒ Some modems load settings into NVRAM (non-volatile RAM) when you turn them on; these settings may be incompatible with *The Need For Speed Special Edition.*
- ❒ If your modem has difficulty initializing and there are no apparent COM port or IRQ conflicts, try the following: go into a communications program (e.g., Terminal for Windows 3.x, Procomm, etc.) and type AT&F. Wait for the OK then type AT&W0. Your modem is reset with the factory default settings loaded into NVRAM.

NETWORK PROBLEMS

The Need for Speed Special Edition requires Windows 95 and an IPX compatible network for network play (the MS-DOS executable does not support network play). If you still experience difficulties with network play, you may want to consult your network manual or network administrator for specific information on loading drivers.

Configuration

- ❒ Do not run any Windows 95 applications that communicate over the network in the background (e.g., mail programs, personal schedulers, system or network monitors).
- ❒ Make sure you have disabled network messages. (If you are running a Novell network, from the MS-DOS prompt type "SEND /A=N" without quotations to turn them off.)
- ❒ *The Need for Speed Special Edition* network play using the DOS Compatible IPX protocol is not compatible with "File and Printer Sharing for Netware Networks" if installed in Windows 95.
- ❒ You must load your network drivers when you boot your machine. Sample driver names include LSL, IPX, IPXODI, and 3c5x9.

Connection problems

- ❒ If you are having troubles connecting or racing, try the different network protocols (DOS Compatible IPX or Winsock IPX)
- ❒ If there are communication problems in the game, try closing all applications, and rebooting the computer. Clearing memory may solve these problems.

Network performance issues

There are various things you can do to make sure you get the best performance out of your network game. These apply to the host computer as well as the clients, but try them on the host alone first as this may solve all the problems.

- ❒ Make sure the host computer, (the one that starts the network game) is the fastest computer.
- ❒ High-traffic networks will slow the game down considerably. Avoid playing the game at peak traffic hours, while there are large file transfers or print jobs being done.
- ❒ See also the *Gameplay Peformance Problems* on p. 10 in this reference card for additional suggestions.

Troubleshooting

If you can't see another player's game:

- ❒ After a network game has been started and the players have begun racing, the game no longer accepts new players.
- ❒ Make sure the computers you are trying to connect are on the same network, and are using the same protocol.
- ❒ If one of the systems has 'Client32' installed, and the other one doesn't, neither one will be able to see the other's games.

DOS USERS: SYSTEM-SPECIFIC ISSUES

COMPAQ SYSTEMS

Users who have a standard Compaq PC with a manufacturer-installed sound card may need to add some important parameters to one of the startup files in order to get sound with this program. Sound Blaster-compatible cards need the proper environment settings in your AUTOEXEC.BAT startup file. To determine if your system has these settings follow the steps below.

- From the DOS "C:\>" prompt, type **set** Enter.
- The list displayed is the environment currently running on your system. If this list doesn't contain any line that reads "BLASTER=<settings>" your system is not properly equipped.

You will need to either create a boot disk in order to add this line or add it to your C:\AUTOEXEC.BAT file. (WARNING: We strongly recommend using a boot disk, as this will not make any permanent changes to your system's configuration.) The correct syntax and proper settings of this line must be typed exactly as follows:

SET BLASTER=A220 I5 D1

REMEMBER: Always reboot after making any changes to your system, and re-run the setup utility in the game's directory. Choose Sound Blaster *only*. Test, if this is still a problem consult the reference material for other noted suggestions.

GATEWAY SYSTEMS

Included with your packaging is an orange envelope labeled 'DO NOT THROW AWAY! This envelope contains your SYSTEM DISK'. This system disk must be installed to access your CD-ROM drive in MS-DOS mode.

1. Insert this disk into your A: drive, and at the "A:\>" prompt in DOS type **install** Enter.
2. Follow the on-screen prompts and complete the installation. Follow these steps with all of the provided install disks to ensure that all components are installed, and working in the DOS portion of your operating system.
3. Remember to always reboot after making any changes to your system.

PACKARD BELL SYSTEMS

It has been determined that the SOUND144, SOUND16A, and some other varieties of Packard Bell-specific sound cards may not be entirely 100% Sound Blaster compatible. If you are receiving poor quality or no sound when choosing Sound Blaster as your sound card during installation, you need to change the mode that your card is set to run in to ensure consistent compatibility.

The sound systems mentioned above support Sound Blaster emulation by default, but can also be configured to emulate the Microsoft Sound System. If you are receiving no sound when choosing Sound Blaster during the installation or setup of *Need for Speed-SE*, follow the steps below to set up your card as a Microsoft Sound System.

SOUND144 Sound Card Owners

You need to add the following lines to the AUTOEXEC.BAT file on a boot disk or your C: drive. (WARNING: We strongly recommend using a boot disk [see p. 19], as this will not make any permanent changes to your system's configuration.) The correct syntax of these lines is as follows.

C:\SOUND144\UTILITY\SETMODE /MSS
C:\SOUND144\UTILITY\VOLSET.EXE /V:16,16

SOUND16A Sound Card Owners

Add the following line to AUTOEXEC.BAT:

C:\SOUND16A\UTILITY\SETMODE /MSS
C:\SOUND16A\UTILITY\VOLSET.EXE /V:16,16

MMPRO16 Sound Card Owners

Add the following line to AUTOEXEC.BAT:

C:\MMPRO16\UTILITY\SETMODE /MSS
C:\MMPRO16\UTILITY\VOLSET.EXE /V:16,16

For owners of a variety of other Packard Bell sound cards the same method will apply, i.e.:

C:\<card name>\UTILITY\SETMODE /MSS
C:\<card name>\UTILITY\VOLSET.EXE /V:16,16

REMEMBER: Always reboot after making any changes to your system, and re-run the install program for your game. Choose WINDOWS SOUND SYSTEM and then click TEST to test your choice. If you still have sound problems, consult the reference material for other noted suggestions.

DOS USERS: CREATING A BOOT DISK

Starting your computer using a DOS boot disk allows you to free up more memory without altering the CONFIG.SYS and AUTOEXEC.BAT files on your hard drive. Booting your computer with a DOS boot disk does not prevent you from accessing your hard drive, it merely provides a different method for configuring your memory. After you create a DOS boot disk, you will copy your CONFIG.SYS and AUTOEXEC.BAT files from your hard disk onto the boot disk and modify these copies. We recommend using this procedure to avoid altering the CONFIG.SYS and AUTOEXEC.BAT files on your hard drive, which may affect your memory configuration for running other applications.

Below are instructions for creating a DOS boot disk. Please follow these steps exactly.

- ✔ NOTE: To create a DOS boot disk you must use a disk that will fit in your A: drive. Your computer will not boot from the boot disk if it is inserted in the B: drive.
- ✔ NOTE: Windows 95 users: Restart your computer in DOS mode: **Start > Shut Down > Restart the computer in MS-DOS mode?**

1. From the DOS prompt, type **c:** and press Enter.
2. Place the blank disk into drive A:.
3. Type **format a: /s** and press Enter. Be sure to include the spaces.
- You will be prompted to insert a blank disk into drive A:. Do so if you haven't already, and press Enter.
4. Once the disk is finished formatting, you will be asked to label (name) the disk. Type in a name and press Enter or simply press Enter for no name.
5. A prompt appears asking whether you wish to format another disk. Press N then press Enter.

To configure your MS-DOS boot disk to free up additional conventional memory and enable Extended memory:

1. Back up your CONFIG.SYS and AUTOEXEC.BAT files before editing them so that you can return to the originals if you have any problems:
   a. At the C:\ prompt, type **copy c:\config.sys c:\config.bak** Enter.
   b. Type **copy c:\autoexec.bat c:\autoexec.bak** Enter.
2. Copy the CONFIG.SYS and AUTOEXEC.BAT files from the root directory on your hard drive (C:\) to the root directory on the boot disk that you have just created (A:\):
   a. At the C:\ prompt, type **copy c:\config.sys a:** Enter.
   b. Type **copy c:\autoexec.bat a:** Enter.
3. Open the boot disk copy of the AUTOEXEC.BAT file (on A:) using the EDIT program from MS DOS 5.0 or greater:
   a. From the C: prompt, type **cd \dos** Enter.
   b. Type **edit a:\autoexec.bat** Enter.
4. From the boot disk copy of the AUTOEXEC.BAT file, delete all lines except the following (items enclosed in [brackets] indicate system-specific variables):

LINE	NOTES
PATH=[Path]	[Path] will vary by system
PROMPT PG	
[Your sound card driver]	Example:
	SETSOUND = C:\SBPRO
	SETBLASTER = A220 I7 D1 T4
[Your CD-ROM driver]	Example: C:\DOS\MSCDEX.EXE /S /D:SONY_000
C:\[directory]\MOUSE.COM	(Or equivalent mouse driver)

✔ **NOTE:** If your mouse line looks different from the examples above, you may not be using

the MOUSE.COM mouse driver. **Do not** change this line if it looks different from the examples above. Drivers with a .SYS extension will be loaded through the CONFIG.SYS file and should be left in place when you are editing that file. If you have other questions about loading your particular mouse driver, consult your mouse or DOS manuals.

5. Save the edited AUTOEXEC.BAT file and open the boot disk copy of the CONFIG.SYS file from within EDIT.
- To save, press Alt-F to bring down the File menu, then press S.
- To open, press Alt-F, press O, then type **a:\config.sys** and press Enter.
6. While still in EDIT, delete all lines from the boot disk copy of the CONFIG.SYS file EXCEPT the following:

LINE	NOTES
DEVICE=C:\DOS\HIMEM.SYS	(Or C:\WINDOWS\HIMEM.SYS)
DOS=HIGH	
BUFFERS=30	
FILES=40	
[Your CD-ROM device driver]	Example: C:\DEV\SLCD.SYS /D:SONY_000 /B:340 /M:P /V /C

Your CONFIG.SYS file should now look like the above example. If it does not, edit it now to make it look similar to the text above.

7. Save the edited CONFIG.SYS file and exit the EDIT program.
- To save, press Alt-F, then press S.
- To exit the Edit program, press Alt-F, then press X.

You now have a boot disk which should free up enough conventional memory and set up enough Extended memory to run the program. The boot disk bypasses the AUTOEXEC.BAT and CONFIG.SYS files on your hard drive and configures your memory based on the AUTOEXEC.BAT and CONFIG.SYS files on your boot disk.

TO START UP YOUR MACHINE USING THE DOS BOOT DISK:

1. Insert the DOS boot disk into drive A:, then restart your machine. Your computer will boot up to the A:\ prompt.
2. Type **c:** and press Enter to return to your hard drive.

✔ **NOTE:** If you want to return your system to its normal memory configuration, simply remove the DOS boot disk from the A: drive and restart your machine.

For more information on editing your CONFIG.SYS and AUTOEXEC.BAT files, or on changing your startup configuration, consult your DOS manual.

CLASSICS CONVERSION TEAM CREDITS

Note: To view original game credits, refer to the online manual.
Executive Producer: Ted Judson
Producer: Kirsten Duvall
Technical Director: Jason Micklewright
Configuration Tester: John Guevara
Quality Assurance Representative: Howard Jay Taubman
Print Production Manager: Linda Hunnicutt
Package Designer: GrateArt
Reference Card Documentation: Andrea Engstrom
Reference Card Layout: Deborah Maxwell
Operations Coordinator: Julie Clark

TECHNICAL SUPPORT

TROUBLESHOOTING DOCUMENTS ONLINE!

Electronic Arts Product Support now offers troubleshooting guides that help overcome some common difficulties. If you have access to the World Wide Web, you can find these guides at

http://www.ea.com/techsupp/troubles.htm

Here you will find troubleshooting information on **DirectX**, **Joysticks**, **Modems**, and **Networks**, as well as information on regular system maintenance and performance. (For game-specific information and additional troubleshooting, visit our main page at http://www.ea.com/techsupp.)

If you have questions about the program, our Technical Support Department can help. Our web site contains up-to-date information on the most common difficulties with our products, and this information is the same as that used by our product support technicians. We keep the product support pages updated on a daily basis, so please check here first for no-wait solutions:

http://www.ea.com/techsupp

If you are unable to find the information you need on our web site, please feel free to contact Technical Support via e-mail, phone, fax, or letter. All messages are responded to in kind—if you send in a request by fax, response will also come by fax. Please be sure to include the following information in your e-mail message, fax, or letter:

- ❒ Computer manufacturer
- ❒ Operating system (Windows 95, DOS 6.22, etc.)
- ❒ CPU type and speed in MHz
- ❒ Amount of RAM
- ❒ Sound card type and settings (address, IRQ, DMA)
- ❒ Video card
- ❒ CD-ROM
- ❒ Mouse driver and version
- ❒ Joystick and game card (if any)
- ❒ A copy of the CONFIG.SYS and AUTOEXEC.BAT files from your hard drive
- ❒ A description of the problem you're having

If you need to talk to someone immediately, call us at (650) 572-2787 Monday through Friday between 8:30–11:45 AM or 1:00–4:30 PM, Pacific Standard Time. *Please have the above information ready when you call.* This will help us answer your question in the shortest possible time.

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